WHAT IS CLAIMED IS:

1. A staple fiber for an electret non-woven fabric, which is a polyolefin heat-bonding fiber having 0.05 to 1.0 % by weight of an oil adhering thereto, characterized in that the amount of the adhering oil decreases to 0.001 to 0.2 % by weight, and that the decrease ratio of the amount of the adhering oil, represented by the equation (I), can be at least 60 %,

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Decrease ratio (%) of the amount of the adhering oil = $[(A-B)/A] \times 100 \dots$ (I) wherein A is an amount (% by weight) of the oil adhering to the heat-bonding fiber and B is an amount of the oil adhering to the non-woven fabric after the heat treatment,

under heat treatment for forming the polyolefin heatbonding fiber into a non-woven fabric and/or under heat treatment of a non-woven fabric formed of the polyolefin heat-bonding fiber.

- 2. The staple fiber of claim 1, wherein the oil contains, as a main component, an ester obtained from polyethylene glycol having a molecular weight of 400 to 800 and a fatty acid having 10 to 20 carbon atoms.
- 3. The staple fiber of claim 1, wherein the polyolefin heat-bonding fiber has 0.2 to 0.6 % by weight of an oil adhering thereto.
 - 4. The staple fiber of claim 1, which is a polyolefin composite fiber.

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5. The staple fiber of claim 4, wherein the

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polyolefin composite fiber is a sheath-core composite fiber containing polyethylene as a sheath portion.

6. A process for the production of an electret non-5 woven fabric, which comprises;

the first step of providing, as a raw material, a staple fiber to which an oil containing, as a main component, an ester obtained from a polyethylene glycol having a molecular weight of 400 to 800 and a fatty acid having 10 to 20 carbon atoms is applied, and opening and carding said staple fiber, to obtain a web,

the second step of binding the web to obtain a non-woven fabric,

the third step of heat-treating the non-woven fabric, and

the fourth step of electrically charging the heattreated non-woven fabric, to obtain an electret non-woven fabric.

- 7. The process of claim 6, wherein a polyolefin composite fiber is used as the staple fiber in the first step.
- 8. The process of claim 6, wherein a sheath-core type composite fiber containing polyethylene as a sheath portion is used as the staple fiber in the first step.
- 9. The process of claim 6, wherein the staple fiber to which 0.2 to 0.6 % by weight, based on the fiber, of the 30 oil is applied is used in the first step.
 - 10. The process of claim 6, wherein the web is needlepunched or stitch-bonded in the second step.
- 35 11. The process of claim 6, wherein the binding in the second step and the heat-treatment in the third step are

simultaneously carried out by hot air-through bonding or hot press bonding.

- 12. The process of claim 6, wherein the heat treatment in the third step is carried out at a temperature of 102° C to 145° C.
- 13. An article obtained from an electret non-woven fabric obtained by the process recited in any one of claims 10 6 to 12.
 - 14. The article of claim 13, which is a filter material, a filter device or a wiper.